

Flight School XXI Simulations

Program History and the
Way Ahead



Program History

Original FSXXI Simulation Vision

- **Privately Funded Initiative (PFI) Concept Where the contractor develops, builds, and provides all simulators required**
- **Contractor provides a multifunction staff to manage, operate, upgrade simulators and provide expertise for LP, POI, and TSP development to facilitate individual, crew, and collective training**
- **Contractor disposes of legacy simulators as directed**
- **The Army pays for simulator availability to train tasks.**
- **Fully reconfigurable, 5 aircraft* types (AH-64A, AH-64D, CH-47D/F, OH-58D, UH-60L/M)**
- **New simulators** cover requirements for CMS/SFTS

Leverage the financial and intellectual capital in industry

Reduce costs to operate simulators while maintaining concurrency

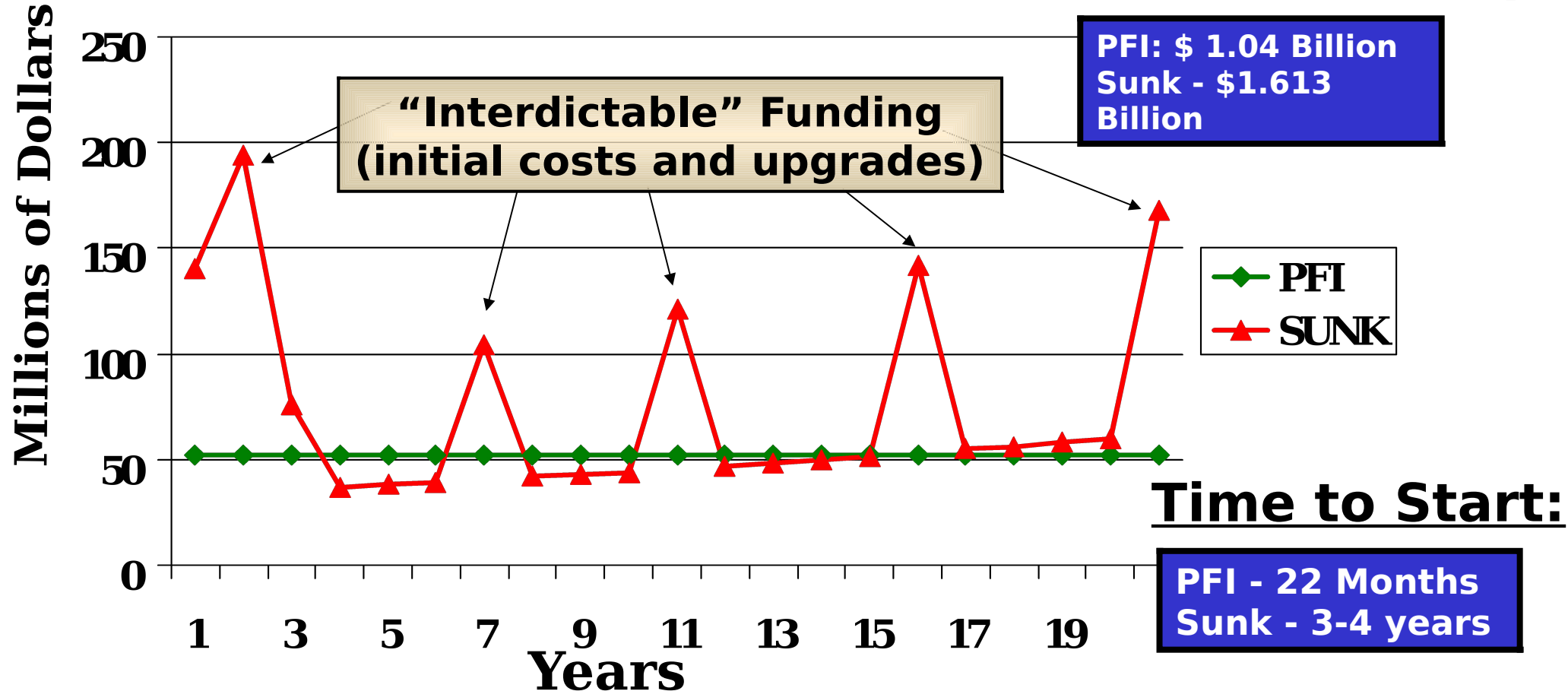
Maximizing the training potential of simulations



Simulations: PFI vs. Sunk Cost

PFI=Privately Funded Initiative

Costs - 20 Year Span



- Estimates based on research
- Does not include instructor costs



Flight School XXI Sims Proposed Business Solution

Option 1: Standard Acquisition (POM, OPA dollars)

- Initial costs in excess of \$400m over 3 years
- Takes four years to see results (POM + development time)
- Government does all the work
- Government manages
- Government pays to upgrade
- Government owns the simulators
- Limited termination liability to the government
- Does not require legislative change/exception (ACAT I, DA approval)
- All risk to government



Flight School XXI Sims Proposed Business Solution

Option 2: 20-year Multi-year (“chunks” of years) (OMA)

- Contractor pays up-front costs, amortizes over contract
- Results within three years
- Contractor does all the work
- Contractor manages
- Shared cost of upgrades
- Contractor owns the simulators
- Termination liability to the government
- Requires change/exception to contracting law (congressional approval)
- Risks shared between government and contractor (lowers cost)



Flight School XXI Sims Proposed Business Solution

Option 3: 20-year Annual (one year at a time) (OMA)

- Contractor pays up-front costs, amortizes over contract
- Results within three years
- Contractor does all the work
- Contractor manages
- Shared cost of upgrades
- Contractor owns the simulators
- Termination liability to the government
- Does not require legislative change/exception (DA approval)
- Shared Risk between government and contractor



FSXXI Simulation Services

Program Milestones

- 23 Jan 2002 – AROC, VCSA approves “FSXXI Implementation Plan”.
- 23 April thru 23 May 2002: FSXXI Simulation Services “Sources Sought” synopsis issued, via FedBizOpps. Industry identified interest as Prime, Team, or Subcontractor.
- 13 Jun 2002: USAAVNC FSXXI Simulation Services Requirements brief to SAALT, approved by NAVAIR HCA.
- 20 May 2003: VTC w/ DASA(P&P) – “Acquisition Strategy Approved”
 - ASA (ALT), Army Contracting Agency (ACA), G-3 (DAMO-TR), G-8 PAE, Asst Sec Army (FM&C), Office of The General Council (OGC) and SADBUE
- 20 May 2003: FSXXI Simulation Services synopsis posted to FedBizOpps
- 21 July-19 Sep 2003: Source Selection
- 26 September 2003: Announcement of award to CSC
- 8 October 2003: Protest filed by CAE



PROGRAMMATICS



FSXXI Simulation Services

Funding Requirements

(MDEP: TAVN; POC Mr. Shawn Johnson)

- FY 03: \$1M
 - FY 04: \$20M
 - FY 05: \$30M
 - FYs 06-09: \$52M (FY 03 constant)
 - EPP (FYs 2010-2022): \$ 52M (FY 03 constant)
-



FSXXI Simulation Services

Acquisition Strategy (Executive Summary)

- The FSXXI Simulation Services procurement will be issued in accordance with Federal Acquisition Regulation (FAR) Part 15.
- A Performance Based **Firm Fixed-Price** “Requirements” contract for services with Award Term (AT) provisions
 - The award document will include an AT Plan and Section H - Award Term Clause
 - **Award Term** options will be based upon annual evaluations of the successful offeror’s performance against the Award Term Plan.
- Full and Open Competition, “**Best Value**” to the Government, Price and other Factors considered.
- All monthly training services for Contracted Mission Time (CMT) will be paid for with Operation and Maintenance - Army (**OMA**) funds.
- The performance period consists of a one (1) year base period with nineteen (19) 1-yr options; however, **no task order will exceed twelve (12) months** due to funding restrictions.
- An Award Term provision will be used to adjust the contract’s total Period of Performance to not more than twenty (20) years, as a result of consistent quality performance by the services contractor; Likewise the **total period of performance could be reduced to not less than seven (7) years**, based upon sub-standard

FSXXI Simulation Services

Acquisition Strategy Risk Management

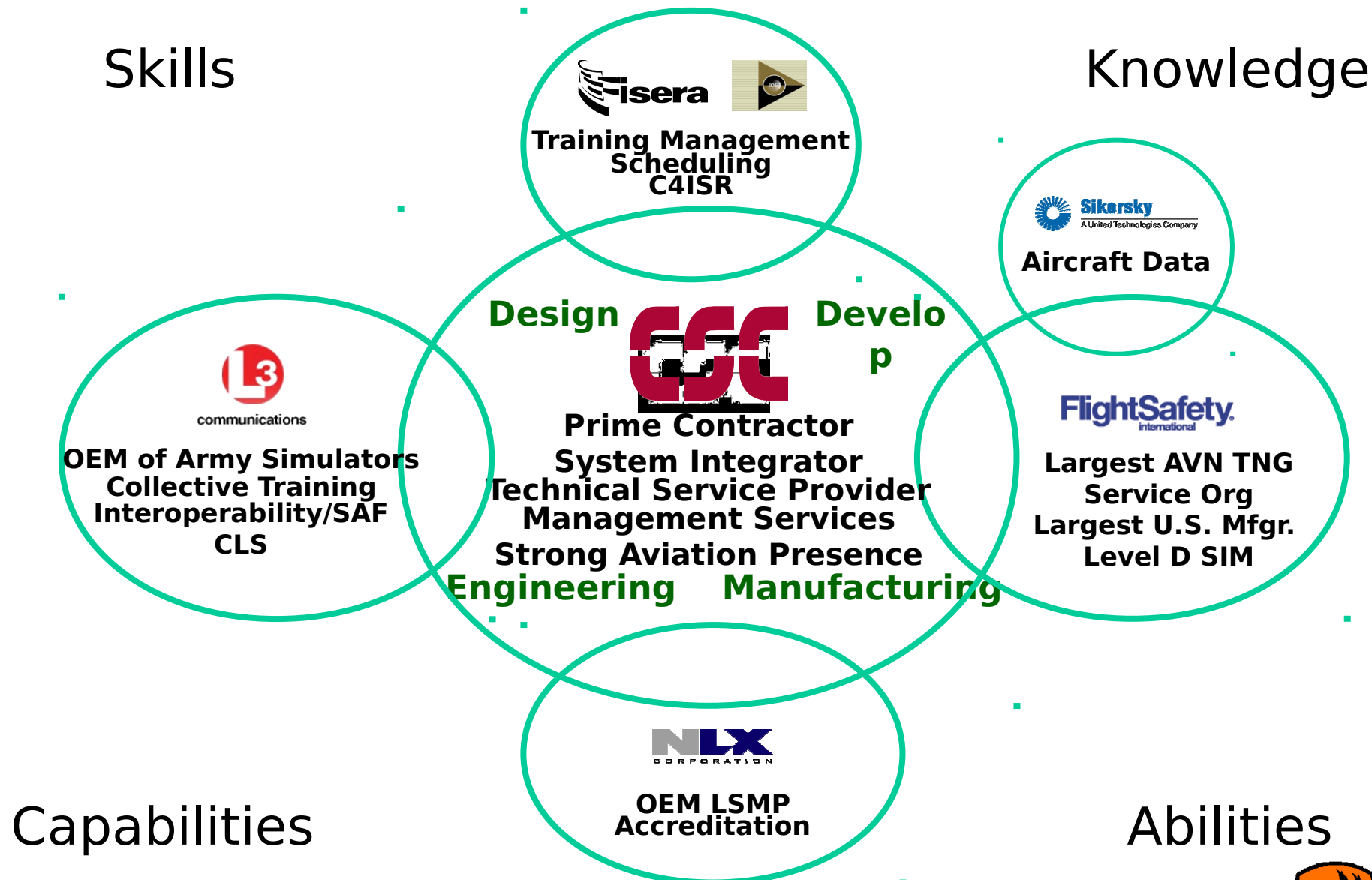
- **Cost:** The FSXXI Simulation Services contractor will provide Firm Fixed-Price pricing for Contracted Mission Time (CMT). **Failure to provide stipulated CMT will result in the imposition of a “Schedule of Deductions”** to be applied against monthly CMT. Approved DD Forms 250 will track CMT services performed.
- **Schedule:** The FSXXI Simulation Services Request For Proposal (RFP) requires that offerors develop an Integrated Master Plan (IMP) and Integrated Master Schedule (IMS), which demonstrate a detailed understanding of what is required in order for the contractor to meet the USAAVNC services timeline, and to provide quality simulation services. The IMP will contain **measurable entrance & exit criteria** that will allow the Government to track the contractor's progress.
- **Performance:** The FSXXI Simulation Services Request For Proposal (RFP) requires that offerors submit a **risk management system** that integrates Metrics to monitor performance. Additionally, a **Quality Assurance Surveillance Plan** (QASP) is also required to be provided for Government review / acceptance. Lastly, the **Award Term Plan** (ATP)

OVERVIEW OF SERVICES



Overview of Contracted Services

Who (The Winning team)



Overview of Contracted Services

How (Contract Summary)

- **Flight School XXI Simulation Services contract awarded to Computer Sciences Corporation (CSC), Corporate Headquarters in El Segundo, CA.**
 - CSC Federal Sector – Defense Group, Falls Church, VA.
- **Contract features:**
 - The contract awarded to CSC is a Fixed Price contract with Award-Term Provisions.
 - Potential value: \$ 1.1 Billion over a nineteen and one-half years period of performance.
 - CSC will provide, manage, test, install, integrate, operate, maintain and upgrade simulators concurrent with the latest fielded aircraft.
 - CSC will be responsible for future concurrency updates and total life-cycle support costs of the simulators throughout the life of the contract

Overview of Contracted Services

What (Quantity & Types of Devices)

Aircraft Configuration	OFT	IFT	18 Reconfigurable Collective Training Devices (RCTD)
TH-67 VS	7	13	
UH-60A/L	8	3	✓
CH-47D	3	-	✓
OH-58D CDS-4	2	2	✓
AH-64D Operational Flight Program (OFP) Lot 8	*1	-	✓
AH-64A Fire Control Computer (FCC) rev-51	-	-	✓
CH-47F (concurrency upgrade)	TBD	TBD	✓
UH-60M (concurrency upgrade)	TBD	TBD	✓
RAH-66	Block II	Block II	✓

OFT: Operational Flight Trainer (6-DOF Motion and 3-DOF Vibration system)

IFT: Instrument Flight Trainer (*3-DOF Vibration system)

RCTDs: AVCATT-A based; floor-mounted in AWSC, 100% Collective training
In a single location once FOC is achieved.



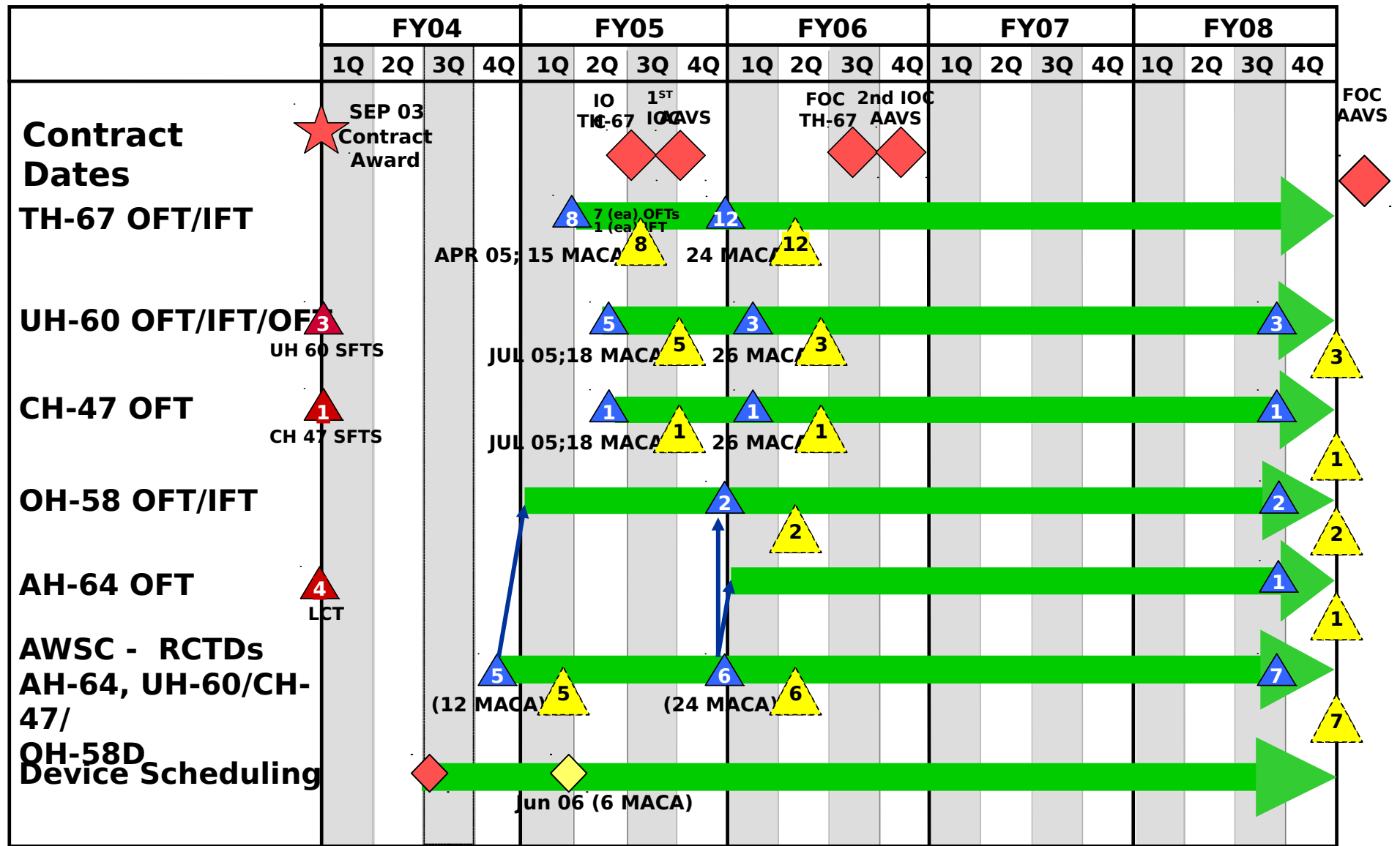
Overview of Contracted Services

What (Training Support Services)

- The CSC multi-functional staff will
 - Schedule, manage, operate, maintain, and upgrade the TH-67 VS and AAVS
 - Schedule: AVCATT-A; LCTs; UH-1H Flight Simulators; UH-60 SFTS; CH-47 SFTS; and the CAVSIM facility training devices
 - Continue to develop training products: TTPs; CATS; MTPs; ATMs
- The CSC Training Management Services will schedule appropriate devices for all required training within the established CMT
 - Standard training week, 5 days/week, excluding holidays, 52 wks/yr
 - Standard training day, 15 Simulator hrs/day, 50 weeks/yr and 8 simulator hrs/day, for 2 wks/yr
 - 6 weekends/yr, Sat through Sun, may be required for TH-67 VSs, 10hrs/day
 - 20 weekends/yr, Sat through Sun, may be required for AAVS, 10hrs/day
- The CSC training support solution is supported by:
 - A fully automated training management & scheduling system (based on ISERA's OnSchedule-Flight)
 - Turn key logistics program with comprehensive spares package



Contracted Delivery Timelines



Protest slides all dates estimated 4 months right (yellow trian



Overview of Contracted Services

When (Fielding Schedule) Con't

- **AAVS collective IOC — 12 months after contract award**
 - 5 reconfigurable collective trainers (RCTD) in AWSC
- **TH-67 IOC — 15 months after contract award**
 - 7 TH-67 Operational Flight Trainers (OFT)
 - 1 TH-67 Instrument Flight Trainer (IFT)
- **1st AAVS IOC — 18 months after contract award**
 - 5 UH-60 Operational Flight Trainers (OFT)
 - 1 CH-47D Operational Flight Trainer (OFT)
- **AAVS collective — 24 months after contract award**
 - 6 RCTD in AWSC (Collective, AH-64D and OH-58D individual training)
- **TH-67 VS FOC — 24 months after contract award**
 - 12 Instrument Flight Trainers (IFT)
- **2nd AAVS IOC “Support all training needs” — FY06**
 - 1 OH-58D OFT - 24 months after contract award
 - 1 OH-58D OFT - 26 months after contract award
 - 2 UH-60 IFT - 25 months after contract award
 - 1 UH-60 IFT - 26 months after contract award
 - 1 CH-47D OFT - 26 months after contract award
- **FOC — 57 months after contract award**
 - 1 AH-64D *OFT
 - 3 UH-60 OFTs
 - 1 CH-47 OFT
 - 7 RCTD in AWSC
 - 2 OH-58D IFTs



Overview of Contracted Services

Where (Physical location of devices)

- **AWSC**

- 18 Reconfigureable Collective Training Devices (RCTDs)
- Additional space remains for other simulation (ETOS/LCT/Door Gunnery Trainer)

- **Pratt Hall***

- 2 UH-1H devices will remain & be incorporated into the FSXXI POI
- No facility modifications required
- Continues to support the UH-1H training without disruption

- **Goodhand***

- 3 UH-60A/L SFTS and 1CH-47D SFTS will remain until FOC
- 4 AH-64D (LCT) remain in place
- AH-64D OFT, delivered @ FOC, can be placed in Goodhand (or AWSC)
- No facility modifications required / No disruption of training

- **Warrior Hall (New Facility)**

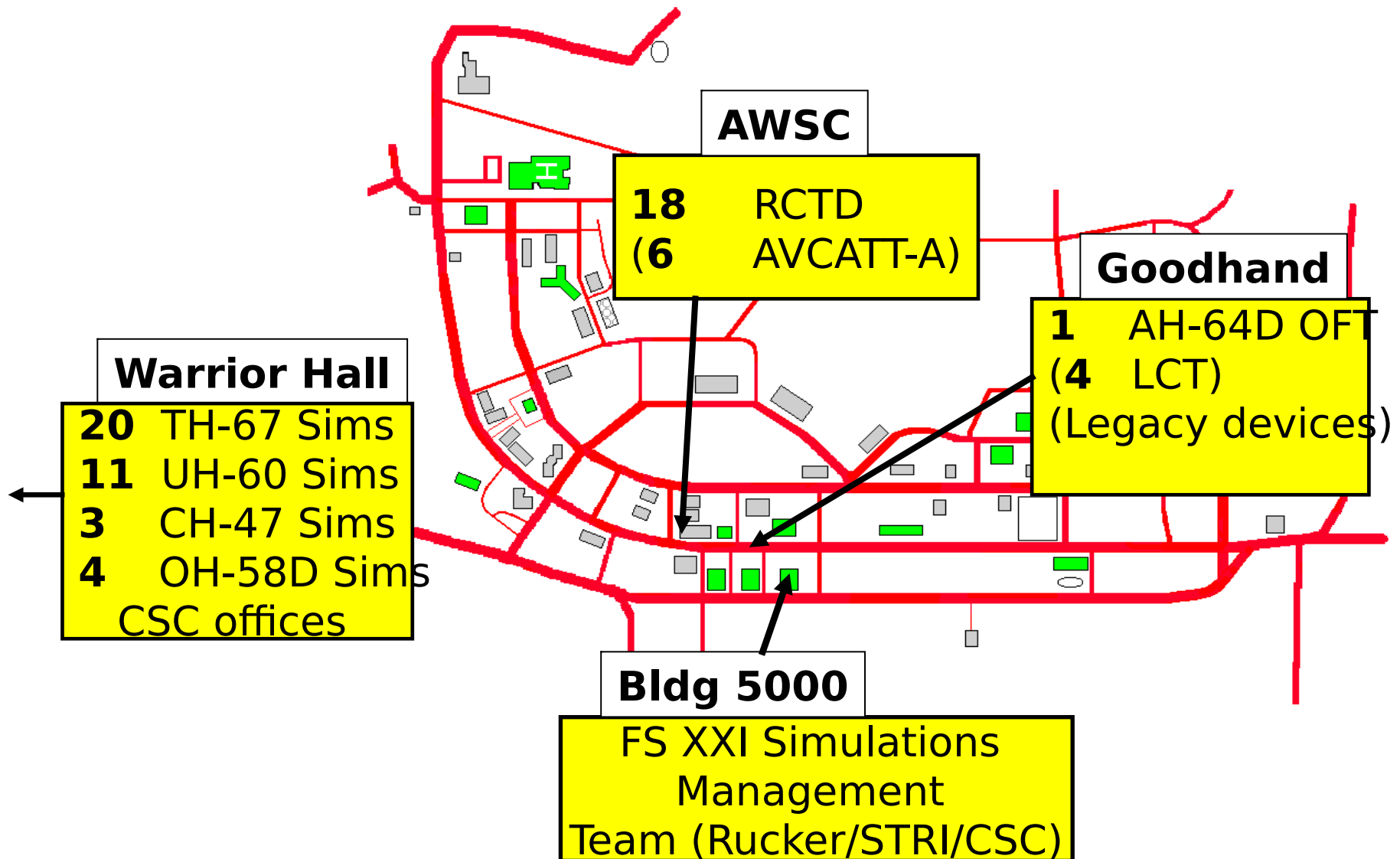
- All new TH-67/UH-60/CH-47and OH-58D IFT & OFT devices
- Over 100,000 square feet (up to 40 flight bays)
- Adjacent to FlightSafety Daleville facility
- 12 months to complete

- **CAVSIM Facility**

- 7 Low Fidelity Fully Reconfigurable Experimental Devices (FREDs)
- 1 Fixed wing Experimental Device
- 1 UH-60 Battle Staff Training System (BaTS)
- 2 Stealth viewing areas
- Supporting administrative offices
- Supporting Contractor Staff (CSC employees)

*Space
available FY
06

FS XXI Facilities

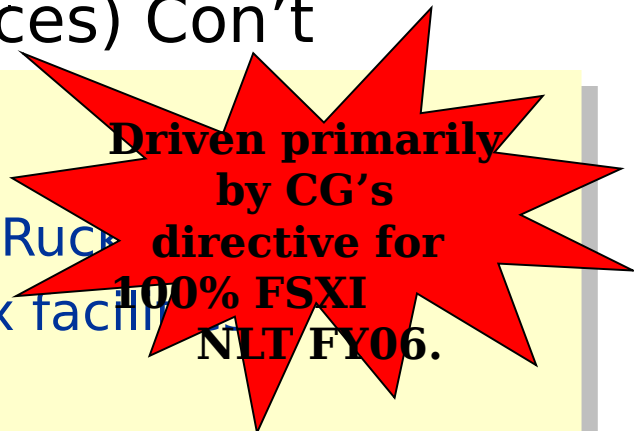


Overview of Contracted Services

Where (Physical location of devices) Con't

Warrior Hall:

- Centrally located less than 3 miles from Ft. Rucker
 - Close to Cairns, Lowe, Hanchey, and Knox facilities
- Transportation
 - Transportation for students will be provided
 - Transportation will be scheduled through the ISERA Training Management System
- Communications: T-1 line in place
- Security considerations
 - Will comply with appropriate USAAVNC policies & regulations
 - Will be certified to conduct operations up to and including SECRET

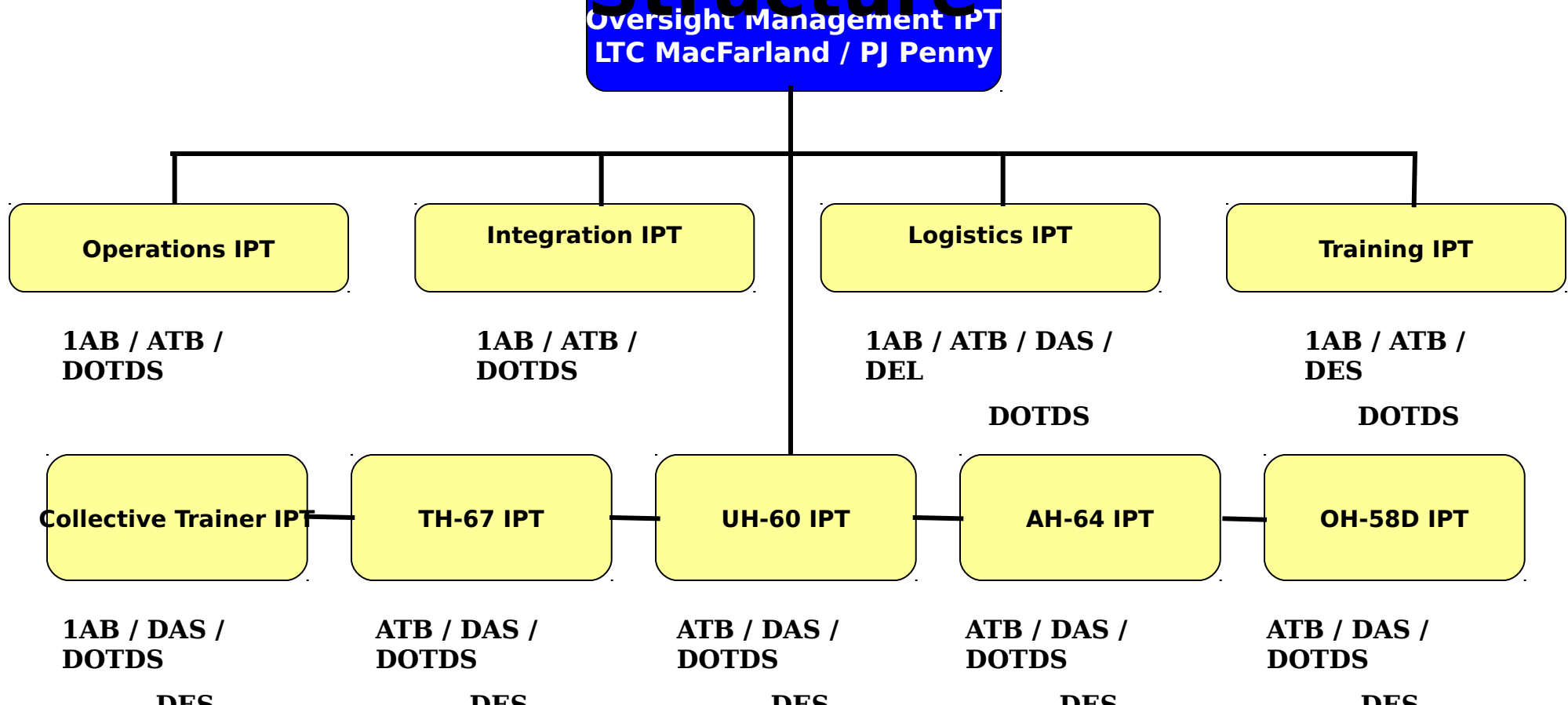


Driven primarily
by CG's
directive for
100% FSXI
NLT FY06.

- Facility ownership/responsibility at end of contract (e.g. Museum)
- Quicker start-up (ROA/DOA 18-24 months)
- Vendor/supplier access (Gate security control)
- Community integration

THE TEAM

Integrated Product Team Structure



Key IPT Structures Established and Prepared to Execute on Contract Award

Most people will be on two or more teams. IPTs will form and dissolve as needed. IPTs will include 1AB, ATB, DAS, DES, DEL, DOTDS, and others as required.
IPT Compositions determined during Post-Award Conference



USAAVNC / PEO STRI Management Team

Organizational Responsibilities

- PEO STRI, (executor) responsible for:
 - Managing the FSXXI Simulation Services contract.
 - Ensuring that FSXXI simulations are interoperable with other training systems (via Partnering).
- USAAVNC, (customer) responsible for:
 - Technical & Training Subject Matter Experts (SMEs) to support: testing, integration, installation, accreditation, and operations of the FSXXI Simulation devices and services.
 - Assessing the efficiency of the simulation services.
 - POM for funding
- A comprehensive set of gov't / contractor Integrated product Teams will be established to facilitate management of the services.
 - IPT membership will c/o USAAVNC Matrix personnel, PEO STRI, FSXXI SETA SMEs, and the FSXXI Simulation Services contractor.



Road Ahead

Conclusion

The FSXXI Team USAAVNC / PEO STRI / CSC is ready and committed to provide a “World-Class training solution for the United States Army Aviation Center, including quality life-cycle management of FSXXI devices and “Turnkey” logistics support!

Recommend CG sign MOA



Backup Slides

USAAVNC PME, Training, and Sims Linkage

